

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of controlling an inkjet printhead containing a substantially closed duct in which ink is situated, said duct having at least one exit opening for the ink, which comprises:

setting a required pressure change for obtaining an ink drop ejection in which the drop has a previously known size and/or speed, size and speed of which at least one is previously known,

- applying an actuation pulse to an electro-mechanical transducer so that the pressure in the duct changes,

- measuring the electric impedance of the electromechanical transducer real time during the application of the said pulse, and

- real time adapting the same actuation pulse on the basis of the measured impedance to obtain the said required pressure change, thus ejecting from the exit opening an ink drop having the previously known size and/or speed from the exit opening, size and speed of which at least one is previously known.

Claim 2 (Cancelled)

3. (Previously Presented) The method according to claim 1, wherein the actuation pulse applied to the electromechanical transducer is a voltage pulse, and a reacting current generated by the electromechanical transducer is measured.

4. (Original) The method according to claim 1, which is used to attain the pressure required to eject the drop at a specific speed and at a predetermined time.

5. (Original) The method according to claim 1, which is used to change the pressure after the ejection of the drop.

6. (Original) The method according to claim 5, wherein after the ejection of the drop, the pressure is brought substantially to a reference value.

7. (Currently Amended) An inkjet printhead containing a substantially closed duct for holding ink, which duct has at least one exit opening for the ink, which comprises:

means for setting a required pressure change for obtaining an ink drop ejection in which the drop has a previously-known size and/or speed, size and speed of which at least one is previously known,

- an actuation circuit for applying an actuation pulse to an electromechanical transducer in such a manner that the pressure in the duct changes,

- a measuring circuit for measuring the impedance of the electromechanical transducer real time during the application of the said pulse, and

- a control unit for real time adapting the same actuation pulse on the basis of the measured impedance to obtain the said required pressure change, thus ejecting from the exit

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opening an ink drop having the previously known size and/or speed from the exit opening. size and speed of which at least one is previously known.

8. (Original) An inkjet printer provided with the inkjet printhead of claim 7.